Abstract of the Disclosure

In a method for controlling a voltage regulator, first and second charge storage devices are switchably connected between a voltage source and the voltage regulator. The first storage device is switched into connection with the voltage source until the voltage on it reaches a predetermined level. The first storage device is disconnected from the voltage source and switched into connection with the second storage device and the voltage regulator until the voltage input to the voltage regulator falls below a predetermined level. The above operations are repeated.